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## Patent Claims

- 5 1. System adapted for sailors in order to determine the air flow conditions around one or more sails, in conjunction with which both sides of the sails are equipped with a number of sensors (1) that are distributed over the surface and communicate the flow conditions in their vicinity to a central unit (5), characterized in that the sensors (1) are of the ultrasonic type.
- System in accordance with Patent Claim 1, characterized in that the flow around the sail is presented on an image of the sail.
- 3. System in accordance with Patent Claim 2, characterized in that the image shows the direction of the air flow around the sensors in the form of arrows, whose direction indicates the direction of the air flow and whose length indicates the velocity of the air flow.
- 4. System in accordance with Patent Claim 2, characterized in that the image shows how telltales on the sail at the location of the sensors would have been oriented.
  - 5. System in accordance with Patent Claims 2, 3 or 4, characterized in that the flow on both sides of the sails is shown in the image in different colours.

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6. System in accordance with Patent Claims 2, 3, 4 or 5, characterized in that the image also includes advice in respect of how the setting of the sail may be changed in order to impart a better function to the sails.

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- 7. System in accordance with one or other of the foregoing Patent Claims, characterized in that the information from the sensors is used for the automatic correction of the sail setting in order to achieve the optimal function of the sails.
- System in accordance with one or other of the foregoing Patent Claims, characterized in that the ultrasonic sensors (1) are of the capacitive micromechanical type.

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9. System in accordance with one or other of the foregoing Patent Claims, characterized in that the transmission from the sensors (1) to the central unit (5) takes place with the help of electrical wires along the sail.

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10. System in accordance with one or other of Patent Claims 1-8, characterized in that the transmission from the sensors (1) to the central unit (5) takes place by wireless means.